PATENT COOPERATION TREATY

PCT

REC'D 2 0 SEP 2005

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P03264			FOR FURTHER AC	TION	See Form PCT/IPEA/416			
International application No. PCT/US2004/011188			International filing date (d	day/month/year)	Priority date (day/month/year) 11.04.2003			
	national Patent Classifi F9/01	cation (IPC) or na	ational classification and IP	С				
Applio BAU	cant JSCH & LOMB ING	CORPORATE	D ET AL.					
1.	This report is the ir Authority under Art	nternational pre ticle 35 and trai	liminary examination repairsmitted to the applicant	oort, established by th according to Article 3	is International Preliminary Examining 6.			
2.	This REPORT con	sists of a total o	of 7 sheets, including th	is cover sheet.				
3.	This report is also	accompanied b	y ANNEXES, comprisin	g:	·			
a. sent to the applicant and to the International Bureau) a total of sheets, as follows:								
	 sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box. 							
	 b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplementa Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions). 							
4.	This report contain	ns indications re	elating to the following ite	ems:				
	⊠ Box No. I	Basis of the opi	inion					
		Priority						
		-	nent of opinion with rega	rd to novelty, inventive	e step and industrial applicability			
		Lack of unity of		•				
☐ Box No. V Reasoned statement under Article 35(2) with reapplicability; citations and explanations support				t) with regard to novel supporting such state	ty, inventive step or industrial ement			
	☐ Box No. VI	Certain docum	ents cited					
	☐ Box No. VII	Certain defects	in the international appl	lication				
☐ Box No. VIII Certain observations on the internat				al application	•			
Date	e of submission of the	demand		Date of completion of t	this report			
08.	10.2004			16.09.2005				
	ne and mailing address		nal	Authorized Officer	.mat Palano.			
preliminary examining authority: European Patent Office - P.B. 5818 Patentiaan 2 NL-2280 HV Rijswljk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016			Bas	Knüpling, M	340-2891			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US2004/011188

	Box No. I	Basis of the report					
1.	With regar	d to the language, this report is based on the international application in the language in which it was s otherwise indicated under this item.					
	☐ This re which	eport is based on translations from the original language into the following language, is the language of a translation furnished for the purposes of:					
	☐ pul	ernational search (under Rules 12.3 and 23.1(b)) plication of the international application (under Rule 12.4) ernational preliminary examination (under Rules 55.2 and/or 55.3)					
2.	have been	d to the elements* of the international application, this report is based on <i>(replacement sheets which furnished to the receiving Office in response to an invitation under Article 14 are referred to in this originally filed" and are not annexed to this report):</i>					
	Description	n, Pages					
	1-28	as originally filed					
	Claims, Nu	mbers					
	1-53	as originally filed					
	Drawings,	Sheets					
	1/15-15/15	as originally filed					
	□ a seq	uence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing					
з. [
		e description, pages e claims, Nos.					
		e drawings, sheets/figs e sequence listing <i>(specify)</i> :					
		y table(s) related to sequence listing (specify):					
4.	had not be	eport has been established as if (some of) the amendments annexed to this report and listed below een made, since they have been considered to go beyond the disclosure as filed, as indicated in the ntal Box (Rule 70.2(c)).					
		e description, pages e claims, Nos.					
	□ the	e drawings, sheets/figs					
		e sequence listing <i>(specify)</i> : y table(s) related to sequence listing <i>(specify)</i> :					
	4 TF 4.	-om 4 applies some or all of these sheets may be marked "superseded"					

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US2004/011188

	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
۱.	The obv	ne questions whether the claimed invention appears to be novel, to involve an inventive step (to be non- vious), or to be industrially applicable have not been examined in respect of:					
		the entire international applicati	he entire international application,				
	\boxtimes	claims Nos. 8					
		because:					
		the said international application of require an international pre-	said international application, or the said claims Nos. relate to the following subject matter which does require an international preliminary examination (specify):				
		the description, claims or drawi that no meaningful opinion cou	e description, claims or drawings <i>(indicate particular elements below)</i> or said claims Nos. are so unclear at no meaningful opinion could be formed <i>(specify)</i> :				
		the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.					
	\boxtimes	no international search report has been established for the said claims Nos. 8					
		the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:					
		the written form		has not been furnished			
	•			does not comply with the standard			
		the computer readable form		has not been furnished			
				does not comply with the standard			
•		the tables related to the nucleonot comply with the technical r	tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do t comply with the technical requirements provided for in Annex C- <i>bis</i> of the Administrative Instructions.				
	П	See separate sheet for further	deta	ils .			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

5,15,25

No: Claims

1-4,6,7,9-14,16-24,32-53

Inventive step (IS)

Yes: Claims

No: Claims

5,15,25

Industrial applicability (IA)

Yes: Claims

1-7,9-53

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

Re Item III.

The method according to claim 8 comprises the step of engaging a therapeutic laser to apply a treatment to a patient's eye, where engaging is interpreted as meaning activating. Laser treatment of an eye is regarded as a surgical treatment in the meaning of Rules 39.1 (iv) and 67.1 (iv) PCT. Thus no search was carried out for this claims (Article 17(2)(a)(I) PCT) and no written opinion about novelty, inventive step or industrial applicability of these claims will be given (Article 34(4)(a)(I) PCT).

Re Item V.

V 1.

The following documents are referred to in this communication:

- D1: US 6 159 205 A (WOODWARD BENJAMIN W ET AL) 12 December 2000 (2000-12-12)
- D2: US 2002/075451 A1 (RUIZ LUIS ANTONIO) 20 June 2002 (2002-06-20)
- D3: GATINEL DAMIEN ET AL: "Three-dimensional representation and qualitative comparisons of the amount of tissue ablation to treat mixed and compound astigmatism." JOURNAL OF CATARACT AND REFRACTIVE SURGERY. NOV 2002, vol. 28, no. 11, November 2002 (2002-11), pages 2026-2034, XP002293300 ISSN: 0886-3350

V 2. Independent claims 1, 6, 32

V 2.1

The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1, 6, and 32 is not new in the sense of Article 33(2) PCT.

V 2.2

Referring to claim 1, document D2 discloses (the references in parenthesis applying to this document):

An algorithm to aid in the selection of a treatment plan for vision correction in a patient's eye, comprising:

obtaining selected diagnostic input data types about the patient's eye (para. [0129], I. 1 - 5);

parameterizing the input data to classify the patient's eye into one of a predetermined plurality of classification sets (para. [0131], l. 1 - 9 referring to an irregular eye and para. [0138], l. 7 - 14 referring to a regular eye and to an astigmatic cornea);

determining a viable plurality of treatment algorithms for potentially correcting the patient's vision based upon the classification (para. [0143], first sentence; para. [0145]; para. [0146]);

presenting a respective plurality of treatment plans based upon the treatment algorithms for prospective selection of one of the treatment plans (para. [0130], l. 1 - 6; para. [0145]; para. [0146]).

V 2.3

Referring to claim 6, D2 further discloses treatment algorithms utilizing one or more default parameters (para. [0129], I. 9 ff: 'The spherical fit is performed along a chosen axis by the user or is based on a pre-configured default axis') which can be modified (same passage). Other treatment parameters can be interactively modified (same passage). Obviously, since parameters can be modified, treatment plans are re-processed and re-presented for further review.

V 2.4

The same reasoning applies, mutatis mutandis, to corresponding apparatus claim 32.

V 2.5

Consequently, the subject-matter of claims 1, 6, and 32 lacks novelty (Article 33(2) PCT).

V 3 Dependent claims

Dependent claims 2 - 5, 8 - 14, 16 - 31, 33 - 53 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step, see documents D1 - D3 and the

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PCT/US2004/011188

corresponding passages cited in the search report.

Claim 15, for which no document was cited, is rendered obvious by D1, which discloses preference settings including treatment zones excluding the central optical zone where treatment is not desired (D1, col. 17, l. 27 - 28).

V 4 Further remarks

Claim 1 does not meet the requirements of Article 6 PCT since it is unclear if the claim is directed to an activity (method) or an entity (computer program product). According to the The American Heritage Dictionary of the English Language, Fourth Edition, an algorithm is a step-by-step problem-solving procedure, especially an established, recursive computational procedure for solving a problem in a finite number of steps.